STRUCTURAL ABBREVIATIONS

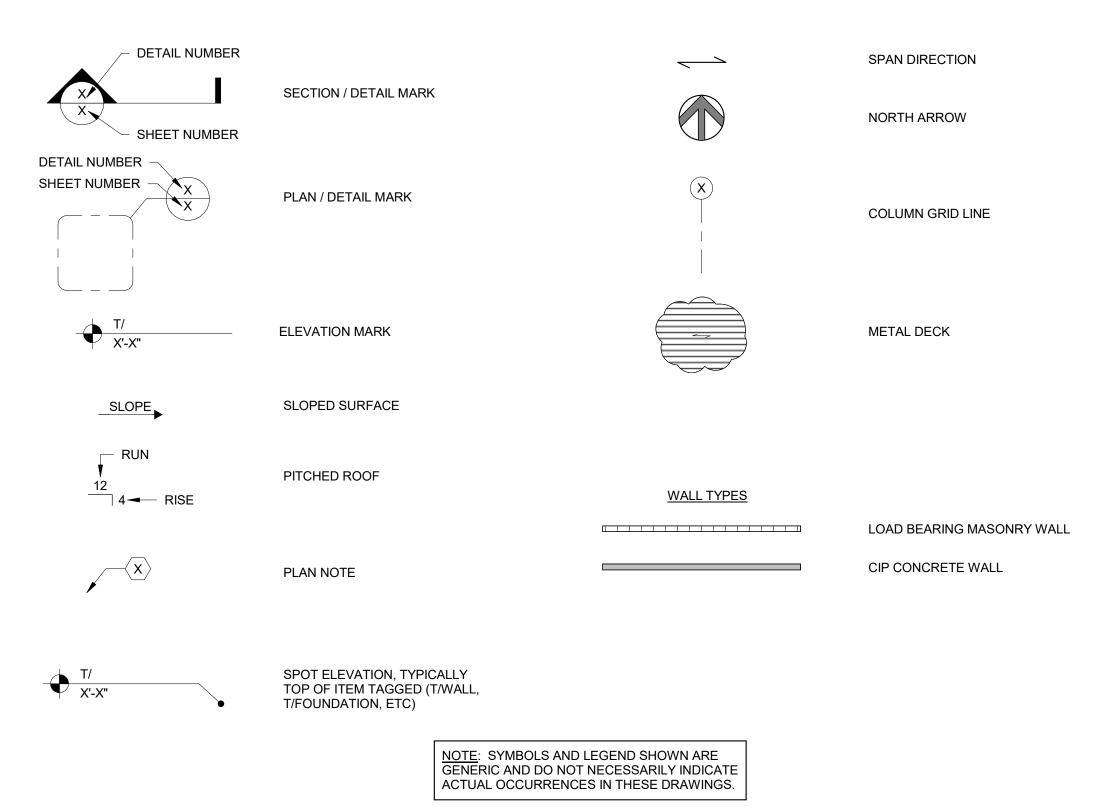
ABBREV	ABBREVIATION	LB	POUND
ACI ADD	AMERICAN CONCRETE INSTITUTE ADDITIVE	LGTH LL	LENGTH LIVE LOAD
ADDL	ADDITIONAL		LONG LEG HORIZONTAL
AFF	ABOVE FINISHED FLOOR	LLV	LONG LEG VERTICAL
AISC AISI	AMERICAN INSTITUTE OF STEEL CONSTRUCTION AMERICAN IRON AND STEEL INSTITUTE	LONG. LSL	LONGITUDINAL LAMINATED STRAND LUMBER
ALT	ALTERNATE/ALTERNATIVE	LT WT	LIGHT WEIGHT
ALUM	ALUMINUM	LVL	LAMINATED VENEER LUMBER
ARCH ASTM	ARCHITECTURE/ARCHITECTURAL AMERICAN SOCIETY OF TESTING MATERIALS	MATL	MATERIAL
AWS	AMERICAN WELDING SOCIETY	MAX	MAXIMUM
_/		MB	MASONRY BEAM
B/ BCX	BOTTOM OF BOTTOM CHORD EXTENSION	MC MECH	MISCELLANEOUS CHANNEL/MASONRY COLUMN MECHANICAL
BLDG	BUILDING	MET	METAL
BLK	BLOCK	MFR	MANUFACTURE/MANUFACTURER
BM BOT	BEAM BOTTOM	MID MIN	MIDDLE MINIMUM
BP	BASE PLATE/BEARING PLATE	MISC	MISCELLANEOUS
BRG	BEARING	MO	MASONRY OPENING
BTWN	BETWEEN	MPH	MILES PER HOUR
С	CHANNEL	NGVD	NATIONAL GEODETIC VERTICAL DATUM
CB CC	CONCRETE BEAM CONCRETE COLUMN	NIC NO.	NOT IN CONTRACT NUMBER
CF	CUBIC FEET (FOOT)	NS	NEAR SIDE
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ CL	CONTRACTION JOINT CENTERLINE	OC	ON CENTERS
CLR	CLEAR/CLEARANCE	OD	OUTSIDE DIAMETER
CM	CONCRETE MASONRY	O.F.	OUTSIDE FACE
CMU CO	CONCRETE MASONRY UNIT COMPANY	OPNG OPP	OPENING OPPOSITE
COL	COLUMN	OSB	ORIENTED STRAND BOARD
CONC	CONCRETE		
CONT CONN	CONTINUOUS CONNECTION	P/C P/T	PRECAST CONCRETE/PILE CAP POST TENSIONED
CONN	CONNECTION	P/T PAR	POSTTENSIONED PARALLEL
COORD	COORDINATE	PCB	PRECAST CONCRETE BEAM
CSJ CTR	CONSTRUCTION JOINT CENTER	PCC PCF	PRECAST CONCRETE COLUMN POUNDS PER CUBIC FEET
CTRD	CENTER	PEMB	POUNDS PER CUBIC FEET PRE-ENGINEERED METAL BUILDING
CY	CUBIC YARD	PEN	PENETRATION
DEPT	DEPARTMENT	P.J. PL	PANEL JOINT CENTERLINE PLATE
DET	DEFARIMENT	PLF	POUNDS PER LINEAR FOOT
DIA	DIAMETER	PLMG	PLUMBING
DIAG DIM	DIAGONAL DIMENSION	PLY. PREFAB	PLYWOOD PREFABRICATED
DIST	DISTANCE	PSF	POUNDS PER SQUARE FOOT
DL	DEAD LOAD	PSI	POUNDS PER SQUARE INCH
DN DWG	DOWN DRAWING	PSL PT	PARALLEL STRAND LUMBER PRESSURE TREATED
DWG	DIAMINO		INEGOUNE INEATED
EA	EACH	R/W	REINFORCED WITH
EE EF	EACH END EACH FACE	RD REF	ROOF DRAIN REFERENCE
EHPA	EMERGENCY HURRICANE PROTECTION AREA	REINF	REINFORCING
EJ	EXPANSION JOINT	REQD	REQUIRED
ELEC EL, ELEV	ELECTRIC/ELECTRICAL ELEVATION	REV RTU	REVISION ROOF TOP UNIT
ENGR	ENGINEER	IX10	
EOD	EDGE OF DECK	SB	SOFFIT BEAM
EOR EQ SP	ENGINEER OF RECORD EQUAL SPACED	SCHED S.F.	SCHEDULE SQUARE FEET
ES	EACH SIDE	SF	STRIP FOUNDATION
EW	EACHWAY	SIM	SIMILAR
EXIST EXP	EXISTING EXPANSION	SPC SPECS	SPACE/SPACES SPECIFICATIONS
EXT	EXTERIOR	SQ	SQUARE
_		SS	STAINLESS STEEL
F FD	FOUNDATION FLOOR DRAIN	STD STIFF	STANDARD STIFFENER
FDN	FOUNDATION	STL	STEEL
FF		STRUCT	STRUCTURAL
FIN FIN GR	FINISH FINISH GRADE	SYM	SYMMETRICAL
FLR	FLOOR	Τ/	TOP OF
FS FT	FAR SIDE FEET/FOOT	TB T&B	TIE BEAM TOP AND BOTTOM
FTG	FOOTING	TCX	TOP AND BOTTOM TOP CHORD EXTENSION
		TDS	TURN DOWN SLAB
GA GALV	GAGE/GAUGE GALVANIZED	TE TEMP	THICKENED EDGE TEMPERATURE
GB	GRADE BEAM	TENS	TENSION
GC	GENERAL CONTRACTOR	THD	THREAD/THREADED
GEN GL	GENERAL GRID LINE	THK TOL	THICK TOLERANCE
GS	GALVANIZED STEEL	TRANS	TRANSVERSE
		TS T S	
HD HDG	HOT DIPPED HOT DIPPED GALVANIZED	T.S. TWF	THICKENED SLAB THICKENED WALL FOUNDATION
HORIZ	HORIZONTAL	TYP	TYPICAL
HSA	HEADED STUD ANCHOR		
HSS HT	HOLLOW STRUCTURAL SECTION HEIGHT	UNO	UNLESS NOTED OTHERWISE
		VERT	VERTICAL
l ID	MOMENT OF INERTIA INSIDE DIAMETER	VIF VOL	VERIFY IN FIELD VOLUME
I.F.	INSIDE DIAMETER INSIDE FACE	VUL	
IN.	INCH	W	WIDE FLANGE SECTION
INT	INTERIOR	W/ W/O	WITH WITHOUT
JST	JOIST	WD	WOOD
JT	JOINT	WF	WALL FOOTING
К	KIP (1000 LB)	WP W.P.	WATERPROOF WORKING POINT
KLF	KIPS PER LINEAL FOOT	WS	WELDED STUD
KSI	KIPS PER SQUARE INCH	WT	WEIGHT/STRUCTURAL TEE SECTION
KWY	KEYWAY	WWF	WELDED WIRE FABRIC
		@ #	AT DESIGNATION
			POUNDS / REBAR SIZE NUMBER
		+/- L	PLUS OR MINUS ANGLE
		C.L.	CENTER LINE
		&	AND

1 Site Key Plan NTS

SECTION MODULUS MOMENT OF INERTIA

Sx lx

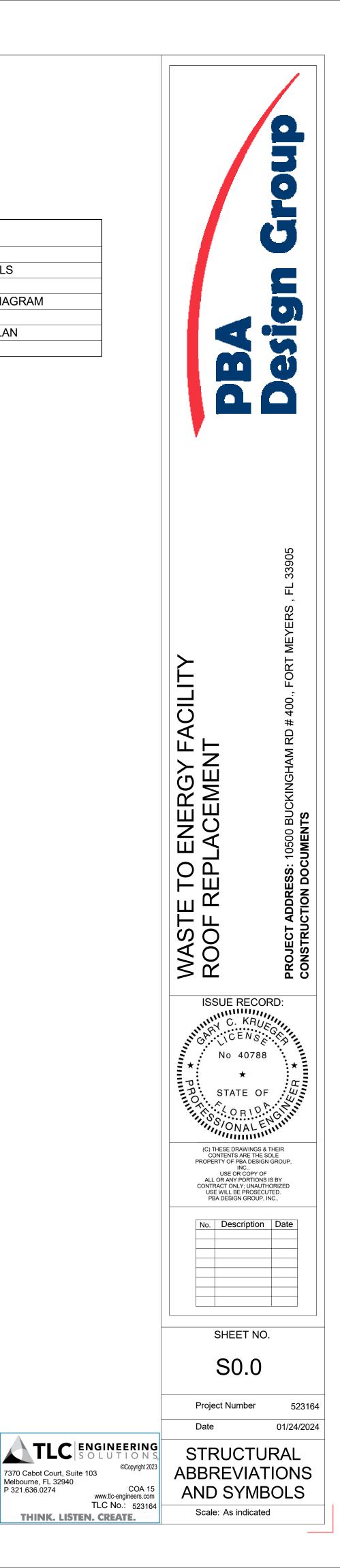
STRUCTURAL SYMBOLS AND LEGEND





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	STRUCTURAL SHEET INDEX
SHEET #	SHEET TITLE
S0.0	STRUCTURAL ABBREVIATIONS AND SYMBOLS
S0.1	STRUCTURAL NOTES
S0.2	COMPONENT AND CLADDING WIND LOAD DIAGRAM
S0.3	SCALEHOUSE C&C WIND LOAD DIAGRAM
S1.0	ROOF EQUIP. SUPPORT AND FASTENING PLAN
S5.0	STRUCTURAL TYPICAL DETAILS



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	010000 GENERAL	NOTES
1.	STRUCTURAL DRAWINGS SHALL BE USED IN CO SPECIFICATIONS AND ARCHITECTURAL DRAWIN OPENINGS, DEPRESSIONS, EQUIPMENT WEIGH AND OTHER DETAILS NOT SHOWN ON STRUCTU	IGS. CONSULT THESE DRAWINGS FOR TS AND LOCATIONS, EMBEDDED ITEMS
2.	DIMENSIONS AND CONDITIONS MUST BE VERIFI SHALL BE BROUGHT TO THE ATTENTION OF THE PROCEEDING WITH THE AFFECTED PART OF TH	E ENGINEER OF RECORD BEFORE
3.	NO STRUCTURAL MEMBER OR COMPONENT SH ALTERED UNLESS APPROVED IN WRITING BY TH CONTRACTOR SHALL BE RESPONSIBLE FOR AN ENGINEER OF RECORD FOR REVIEW OF ANY SU	HE ENGINEER OF RECORD. THE IY AND ALL COSTS INCURRED BY THE
ŀ.	DO NOT SCALE DRAWINGS.	
5.	DETAILS LABELED "TYPICAL DETAILS" ON THE D SITUATIONS OCCURRING ON THE PROJECT THA SPECIFICALLY DETAILED. THE APPLICABILITY OF DRAWINGS CAN BE DETERMINED BY THE TITLE WHETHER OR NOT THEY ARE REFERENCED AT REGARDING APPLICABILITY OF TYPICAL DETAIL ENGINEER OF RECORD.	AT ARE THE SAME OR SIMILAR TO THOSE F THE DETAIL TO ITS LOCATION ON THE OF DETAIL. SUCH DETAILS SHALL APPLY EACH LOCATION. QUESTIONS
3.	THE GENERAL CONTRACTOR SHALL COMPARE DRAWINGS AND REPORT ANY DISCREPANCIES WITHIN EACH SET OF DRAWINGS TO THE ARCH TO THE FABRICATION AND INSTALLATION OF AN	BETWEEN EACH SET OF DRAWINGS AND ITECT AND ENGINEER OF RECORD PRIOR
7.	THE STRUCTURAL ENGINEER'S OBLIGATIONS TO SUBMITTALS AND TO RETURN THEM IN A TIMEL' PRIOR REVIEW AND APPROVAL OF THE SHOP D CONTRACTOR AS REQUIRED IN THE CONSTRUC CONTRACTOR'S SUBMITTAL OF THE SHOP DRAY ACCORDANCE WITH A WRITTEN SCHEDULE DIS ENGINEER IDENTIFYING THE DATES FOR THE SU DRAWINGS AND SUBMITTALS.	Y MANNER ARE CONDITIONED UPON THE RAWINGS OR SUBMITTALS BY THE CTION CONTRACT AND THE WINGS AND OTHER SUBMITTALS IN TRIBUTED IN ADVANCE TO THE
8.	PERIODIC SITE OBSERVATION BY FIELD REPRES SOLUTIONS, INC IS SOLELY FOR THE PURPOSE CONTRACTOR IS PROCEEDING IN GENERAL ACC CONTRACT DOCUMENTS. THIS LIMITED SITE OF AS EXHAUSTIVE OR CONTINUOUS TO CHECK TH	OF DETERMINING IF THE WORK OF THE CORDANCE WITH THE STRUCTURAL 3SERVATION SHALL NOT BE CONSTRUED
9.	ALL STRUCTURES REQUIRE PERIODIC MAINTEN ENSURE STRUCTURAL INTEGRITY FROM EXPOS PROGRAM OF MAINTENANCE SHALL BE ESTABL SHALL INCLUDE ITEMS SUCH AS, BUT NOT LIMIT STEEL, PROTECTIVE COATINGS FOR CONCRETS EXPANSION JOINTS, CONTROL JOINTS, SPALLS PRESSURE WASHING OF EXPOSED STRUCTURA ENVIRONMENT OR OTHER HARSH CHEMICALS.	SURE TO THE ENVIRONMENT. A PLANNED LISHED BY THE OWNER. THIS PROGRAM TED TO, PAINTING OF STRUCTURAL E, SEALANTS, CAULKED JOINTS, AND CRACKS IN CONCRETE, AND
10.	IN THE PROFESSIONAL OPINION OF TLC ENGINE STRUCTURAL CONTRACT DOCUMENTS FOR TH ACCORDANCE WITH THE DESIGN CRITERIA AS S CODE (FBC) 8th EDITION (2023).	IS PROJECT HAVE BEEN PREPARED IN
11.	FINISH FLOOR ELEVATION (FIRST FLOOR) OF 0'-	0" IS USED AS A REFERENCE ELEVATION.
12.	THE USE OF REPRODUCTIONS OF THESE CONT FILES BY ANY CONTRACTOR, SUBCONTRACTOF SUPPLIER IN LIEU OF PREPARATION OF SHOP D ALL INFORMATION SHOWN HEREON AS CORREC JOB EXPENSE, REAL OR IMPLIED, ARISING DUE HEREON.	R, ERECTOR, FABRICATOR OR MATERIAL DRAWINGS SIGNIFY HIS ACCEPTANCE OF CT, AND OBLIGATES HIMSELF TO ANY
	010002 DESIGN	LOADS
1.	THE STRUCTURAL SYSTEMS FOR THIS BUILDING WITH THE FLORIDA BUILDING CODE, 8th EDITION LOCAL AMENDMENTS.	
2.	THE FOLLOWING SUPERIMPOSED LOADINGS HA	AVE BEEN UTILIZED:
	A. DEAD LOADS:	
		15 PSF
	B. LIVE LOADS ROOF	20 PSF
	C. WIND LOADS: PER FLORIDA BUILDING C	
	SEE SHEET S-002 FOR COMPONENTS AN	
	ULTIMATE DESIGN WIND SPEED, Vult NOMINAL DESIGN WIND SPEED, Vasd RISK CATEGORY EXPOSURE	180 MPH (3 SEC. GUST) 139 MPH (3 SEC. GUST) IV C
	010005 CODE COMPLIANO	
		EN DESIGNED IN ACCORDANCE WITH THE
	STRUCTURAL SYSTEM FOR THE BUILDING HAS BEE	
FOLL	STRUCTURAL SYSTEM FOR THE BUILDING HAS BEE	
	STRUCTURAL SYSTEM FOR THE BUILDING HAS BEE OWING CODES: THE FLORIDA BUILDING CODE, 2023 EDITION. LEE COUNTY LAND DEVELOPMENT CODE ARTIC	CLE III (91-21) AND ORDINANCE 94-22
FOLL 1.	STRUCTURAL SYSTEM FOR THE BUILDING HAS BEE OWING CODES: THE FLORIDA BUILDING CODE, 2023 EDITION.	CLE III (91-21) AND ORDINANCE 94-22
=OLL 1.	STRUCTURAL SYSTEM FOR THE BUILDING HAS BEE OWING CODES: THE FLORIDA BUILDING CODE, 2023 EDITION. LEE COUNTY LAND DEVELOPMENT CODE ARTIC	CLE III (91-21) AND ORDINANCE 94-22
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OLL	STRUCTURAL SYSTEM FOR THE BUILDING HAS BEE OWING CODES: THE FLORIDA BUILDING CODE, 2023 EDITION. LEE COUNTY LAND DEVELOPMENT CODE ARTIC	CLE III (91-21) AND ORDINANCE 94-22

- MANNER AS TO AVOID DELAYS IN CONTRACTORS WORK.
- 2 ENGINEER BY THE CONTRACTOR WHEN APPROVED BY THE ARCHITECT.
- ENGINEER SHALL TAKE UP TO 5 BUSINESS DAYS TO REVIEW AND RETURN RFI'S. 3 WITHIN A REASONABLE TIME FRAME.
- WRITING BY THE CONSTRUCTION ADMINISTRATOR.

013301 SHOP DRAWING REVIEW

- OMISSIONS ASSOCIATED WITH THE PREPARATION OF THE SHOP DRAWINGS.
- SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND MARKED DRAWING SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.
- OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER OF RECORD.
- COSTS CAUSED BY MULTIPLE RE-SUBMITTALS (MORE THAN ONE) AT ARCHITECT/ENGINEERS' CURRENT HOURLY RATES.

013303 SUBMITTALS

- CONTRACTOR PRIOR TO SUBMITTAL.
- FOR THE FOLLOWING ITEMS:
 - •
 - ONLY.
 - WINDOW SHUTTERS (D)
 - STRUCTURAL STEEL
 - C. ROOF SYSTEM ASSEMBLY
- MANUFACTURER'S LITERATURE. SUBMIT TWO COPIES OF MANUFACTURER'S 3 LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.

013100 REQUEST FOR INTERPRETATION

RFI SHALL ORIGINATE WITH CONTRACTOR AND SHALL BE SUBMITTED IN THE FORM SPECIFIED WITHIN CONTRACT DOCUMENTS. RFI SHALL BE SUBMITTED IN A PROMPT

RFI SHALL BE SUBMITTED AS SPECIFIED WITHIN THE CONTRACT DOCUMENTS AND SHALL BE FORWARDED TO THE ENGINEER VIA THE ARCHITECT OR DIRECTLY TO THE

HOWEVER, THE ENGINEER WILL ATTEMPT TO EXPEDITE THE REVIEW OF ALL RFI'S

RFI RESPONSES ARE NOT INTENDED TO AUTHORIZE ANY INCREASE IN CONSTRUCTION COST, SCHEDULE OR TIME EXTENSIONS, OR CONSTRUCTION IN CONFLICT WITH ANY APPLICABLE CODES OR SPECIFIED DESIGN STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE DESIGN TEAM IMMEDIATELY OF ANY PERCEIVED SCOPE, SCHEDULE, OR COST IMPACTS OR ADJUSTMENTS. IF CONTRACTOR REQUESTS ANY ADDITIONAL COST, INCREASE IN SCHEDULE OR ADJUSTMENT IN SCOPE, THE CONTRACTOR SHALL NOT PROCEED WITH ADDITIONAL WORK UNTIL APPROVED IN

SHOP DRAWINGS SHALL ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN ON THE CONTRACT DOCUMENTS. SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. REVIEW OF SUBMITTALS AND SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR ERRORS AND

"APPROVED" PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. NON-CONFORMING

THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS

CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS SHALL BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RE-SUBMITTALS SHALL BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ARCHITECT/ENGINEER OF RECORD REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE RE-SUBMITTAL. CONTRACTOR IS RESPONSIBLE FOR

ALL SHOP DRAWINGS MUST BE REVIEWED AND STAMPED APPROVED BY THE GENERAL

THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWINGS

ITEMS MARKED (D) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.

ITEMS MARKED (#) SHALL BE SUBMITTED FOR ENGINEERS RECORD

THE FOLLOWING SYSTEMS AND COMPONENTS AS A MINIMUM REQUIRE FABRICATION AND ERECTION DRAWINGS PREPARED BY A DELEGATED ENGINEER:

A. WINDOW SHUTTERS

- SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE 2 CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND DRAWINGS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. SHOP DRAWINGS AND CALCULATIONS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.
- SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER THE DIRECT SUPERVISION AND CONTROL OF THE DELEGATED ENGINEER.
- SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER 4. REGISTERED IN THE STATE OF FLORIDA . COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA AS AN INDICATION THAT HE/SHE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. THE STRUCTURAL ENGINEER WILL RETAIN ONE SIGNED AND SEALED SET FOR THEIR RECORDS.
- DRAWINGS PREPARED SOLELY TO SERVE AS A GUIDE FOR FABRICATION AND 5 INSTALLATION (SUCH AS REINFORCING STEEL SHOP DRAWINGS OR STRUCTURAL STEEL ERECTION DRAWINGS) AND REQUIRING NO ENGINEERING, DO NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.
- CATALOG INFORMATION ON STANDARD PRODUCTS DOES NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.
- REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFYING THE FOLLOWING:
- A. THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.
- THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE DELEGATED ENGINEER.
- THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND C. HAS USED THE SPECIFIED STRUCTURAL CRITERIA. NO DETAILED CHECK OF CALCULATIONS WILL BE MADE.
- THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE.
- SUBMITTALS NOT MEETING THE ABOVE CRITERIA WILL NOT BE REVIEWED AND WILL BE 8 RETURNED.

024117 EXISTING STRUCTURE

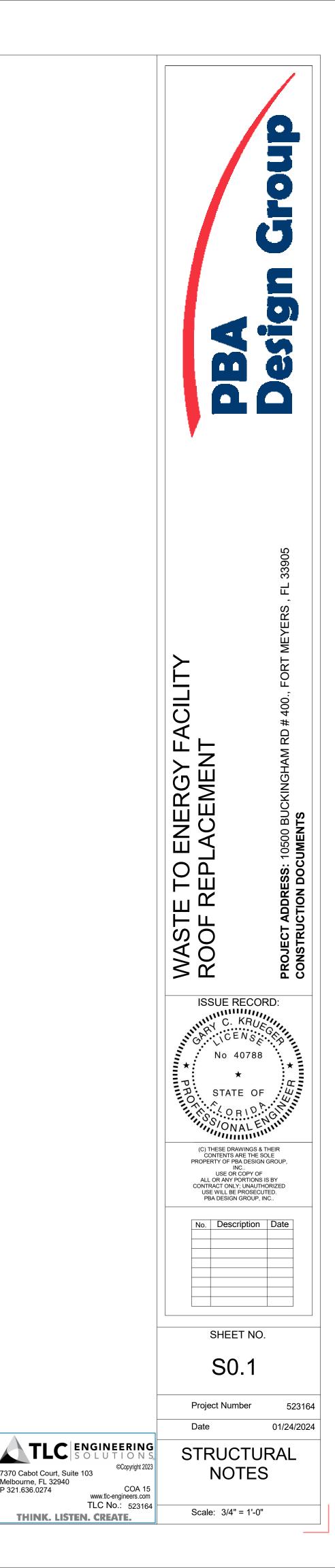
- INFORMATION SHOWN FOR THE EXISTING STRUCTURE ON THESE DRAWINGS WAS TAKEN FROM THE DRAWINGS THAT WERE PREPARED FOR: PREPARED BY: UNITED ENGINEERS AND CONSTRUCTORS. LEE COUNTY RESOURCE RECOEVERY FACILITY ENTITLED: DATED: SEPTEMBER 29, 1995 WORK SHOWN ON THESE DRAWINGS ASSUMES THAT THE ORIGINAL CONSTRUCTION WAS PERFORMED IN ACCORDANCE WITH THE ABOVE INDICATED ORIGINAL DRAWINGS
- INCLUDING (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, MEMBER SIZES, MATERIALS, DETAILS, ETC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.

051200 STRUCTURAL STEEL

- STEEL WORK SHALL BE NEW AND CONFORM TO THE ANSI/AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
- MATERIAL SHALL CONFORM TO THE FOLLOWING, EXCEPT AS NOTED: ANGLES, CHANNELS AND PLATES ASTM A36 (Fy=36 KSI)
- CONNECTIONS: 3. WELDING ELECTRODES SHALL BE PER AWS D1.1. RETURN FILLET WELDS FOR FRAMED CONNECTIONS 1/2" AT EACH END.
- ALL STRUCTURAL STEEL EXPOSED TO EXTERIOR CONDITIONS SHALL BE HOT DIPPED 4 GALVANIZED PER ASTM A123 AND ALL FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A153.

051201 WELDING

- WELDING SHALL BE DONE BY WELDERS WITH CURRENT CERTIFICATION IN ACCORDANCE WITH AWS D1.1.
- WELDS SHOWN ON STRUCTURAL DRAWINGS ARE MINIMUM DESIGN REQUIREMENTS 2 THE FABRICATOR'S SHOP DRAWINGS SHALL REFLECT WELDS IN ACCORDANCE WITH AWS REQUIREMENTS.
- FULL PENETRATION GROOVE WELDS SHALL BE INSPECTED BY ULTRASONIC TESTING. TWENTY-FIVE PERCENT OF THE WELDS SHALL BE INSPECTED AT RANDOM UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, GROOVE WELDS SHALL BE FULL 4 PENETRATION.
- PROVIDE FILLET WELDS AT CONTACT POINTS BETWEEN STEEL MEMBERS SUFFICIENT 5. TO DEVELOP THE ALLOWABLE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT UNLESS DETAILED OTHERWISE ON THE DRAWINGS. THE MINIMUM FILLET WELD SIZE IS 3/16" UNLESS OTHERWISE NOTED.



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	ULTIN	1ATE	C&C \	WIND	PRES	SURE	ES (AS	SCE 7	-22)		ι	JLTIM	IATE (C&C V	VIND	PRE
							RC	OF	W	ALL .						
BUILDING	a (FT)	h (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)	BUILDING	a (FT)	h (FT)	Vult (MPH)	Vasd (MPH)	A (SF)
					<10	+16.0 -128.3	+16.0 -201.4	+16.0 -201.4	+87.7 -87.7	+87.7 -160.8						<10
TIPPING					20	+16.0 -121.1	+16.0 -191.3	+16.0 -191.3	+87.7 -87.7	+87.7 -160.8	REFUSE PIT BUILDING /					20
ENCLOSURE BUILDING	12'-4"	66'-0"	180	140	50	+16.0 -111.6	+16.0 -178.0	+16.0 -178.0	+80.8 -83.1	+80.8 -142.3	BOILER BUILDING	19'-6"	108'-0"	180	140	50
					100+	+16.0 -104.4	+16.0 -167.9	+16.0 -167.9	+75.5 -79.6	+75.5 -128.3						100+
	NOMI	NAL (C&C V	VIND I	PRES	SURE	S (AS	CE 7-	22)			NOMI	NAL C	C&C V	/IND I	PRES
	NOMI	NAL (C&C V	VIND I	PRES	SURE	S (AS		,	ALL		NOMI	NAL C	C&C W	/IND I	PRES
BUILDING	NOMI (FT)	NAL (Vult (MPH)	VIND I Vasd (MPH)	PRES A (SF)	SURE ZONE (PSF)	•		,	ALL ZONE 5 (PSF)	BUILDING	a (FT)	NAL C	Vult (MPH)	Vasd (MPH)	PRES A (SF)
	а	h	Vult	Vasd	A	ZONE	RC ZONE	ZONE	V/ ZONE	ZONE 5		а	h	Vult	Vasd	A
BUILDING	a (FT)	h	Vult	Vasd	A (SF)	ZONE (PSF) +10.0	RC ZONE (PSF) +10.0	ZONE 3 (PSF) +10.0	W/ ZONE (PSF) +52.6	ZONE 5 (PSF) +52.6	BUILDING REFUSE PIT	а	h	Vult	Vasd	A (SF)
BUILDING	а	h	Vult	Vasd	A (SF) <10	ZONE (1) (PSF) +10.0 -77.0 +10.0	RC ZONE (PSF) +10.0 -120.8 +10.0	DOF ZONE 3 (PSF) +10.0 -120.8 +10.0	W/ ZONE (PSF) +52.6 -52.6 +52.6	ZONE 5 (PSF) +52.6 -96.5 +52.6	BUILDING	а	h	Vult	Vasd	A (SF) <10

1	ULTIN	IATE	C&C V	VIND	PRES	SURE	ES (AS	SCE 7	-22)					
							RO	OF	W	ALL	1			
BUILDING	a (FT)	h (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)		BUILDING	0.6h (FT)	0.2h (FT)
					<10	+16.0 -128.3	+16.0 -201.4	+16.0 -274.4	+87.7 -87.7	+87.7 -160.8				
SCRUBBER					20	+16.0 -121.1	+16.0 -191.3	+16.0 -261.5	+87.7 -87.7	+87.7 -160.8		CARBON BUILDING /		
BUILDING	12'-4"	66'-0"	180	140	50	+16.0 -111.6	+16.0 -178.0	+16.0 -244.4	+80.8 -83.1	+80.8 -142.3		ELECTRICAL BUILDING	16'-3"	5'-5"
					100+	+16.0 -104.4	+16.0 -167.9	+16.0 -231.4	+75.5 -79.6	+75.5 -128.3				
	NOMI	NAL (C&C V	VIND I	PRES	SURE	S (AS	CE 7-	22)					
							RO	OF	W	ALL				
BUILDING	a (FT)	h (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)		BUILDING	0.6h (FT)	0.2h (FT)
					<10	+10.0 -77.0	+10.0 -120.8	+10.0 -164.7	+52.6 -52.6	+52.6 -96.5				
SCRUBBER					20	+10.0 -72.7	+10.0 -114.8	+10.0 -156.9	+52.6 -52.6	+52.6 -96.5		CARBON BUILDING /		
BUILDING	12'-4"	66'-0"	180	140	50	+10.0 -67.0	+10.0 -106.8	+10.0 -146.6	+48.5 -49.8	+48.5 -85.4		ELECTRICAL BUILDING	16'-3"	5'-5"
					100+	+10.0 -62.6	+10.0 -100.7	+10.0 -138.9	+45.3 -47.7	+45.3 -77.0				

	ULTIMATE C&C WIND PRESSURES (ASCE 7-22)													
								ROOF WALL						
BUILDING	0.6h (FT)	0.2h (FT)	a (FT)	h (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)		
							<10	+38.5 -150.6	+94.6 -198.7	+94.6 -198.7	+94.6 -102.6	+94.6 -126.6		
TURBINE							20	+36.1 -140.7	+90.3 -185.9	+90.3 -185.9	+90.3 -98.3	+90.3 -118.1		
GENERATOR BUILDING	36'-0"	12'-0"	10'-5"	60'-0"	180	140	50	+32.9 -127.6	+84.7 -169.1	+84.7 -169.1	+84.7 -92.7	+84.7 -106.8		
							100+	+30.4 -117.6	+80.4 -156.3	+80.4 -156.3	+80.4 -88.4	+80.4 -98.3		
	Ν	OMIN	AL C	&C W	IND PI	RESS	URES	s (ASC	E 7-2	2)				
									RO	OF	WA	ALL		
BUILDING	0.6h (FT)	0.2h (FT)	a (FT)	h (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)		
							<10	+23.1 -90.4	+56.7 -119.2	+56.7 -119.2	+56.7 -61.5	+56.7 -76.0		
TURBINE							20	+21.6 -84.4	+54.2 -111.6	+54.2 -111.6	+54.2 -59.0	+54.2 -70.9		
GENERATOR BUILDING	36'-0"	12'-0"	10'-5"	60'-0"	180	140	50	+19.7 -76.5	+50.8 -101.4	+50.8 -101.4	+50.8 -55.6	+50.8 -64.1		
1														

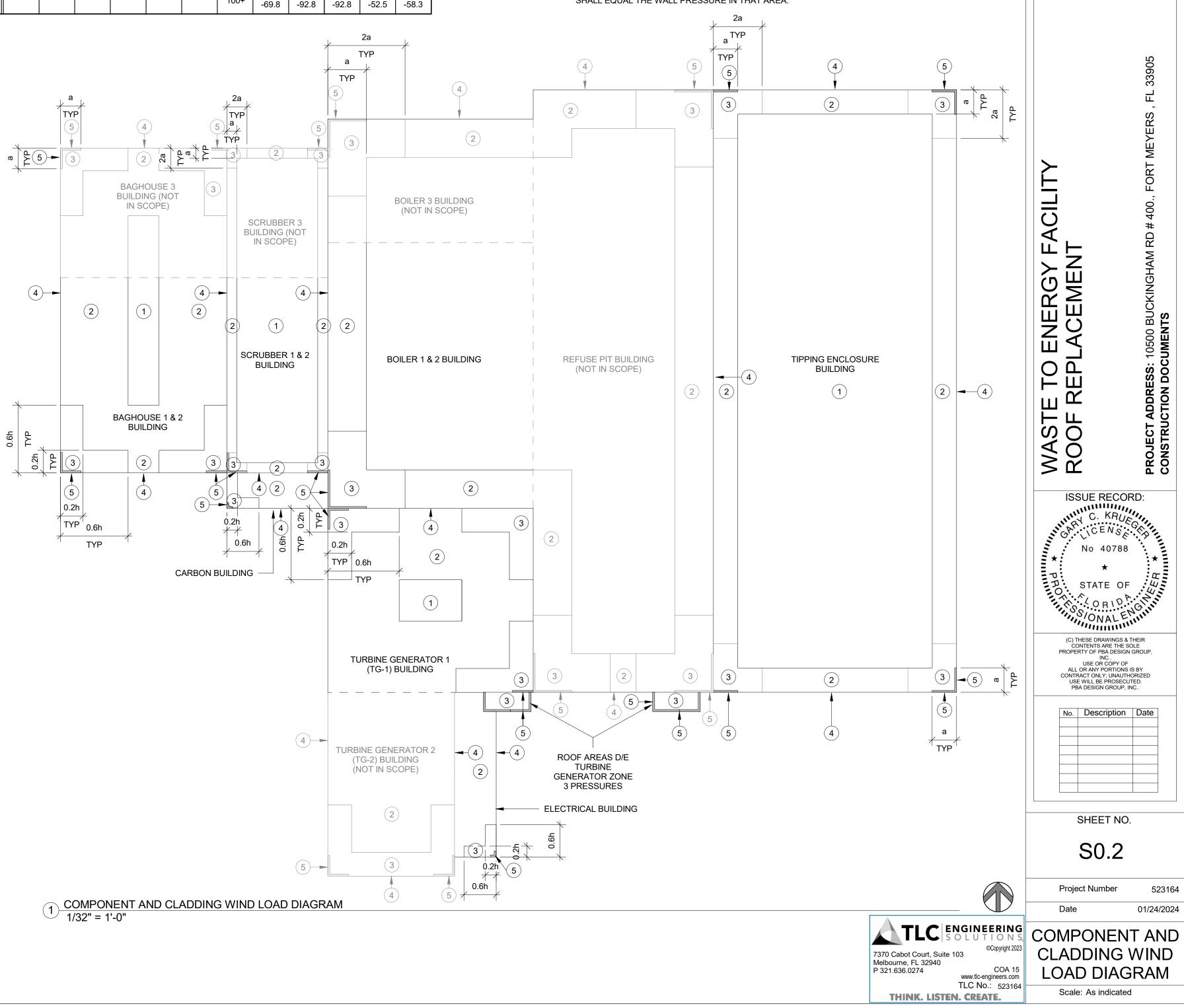
ιC V	VIND	PRES	SURE	ES (AS	SCE 7.	-22)				UL			&C W	IND P	RESS	URES	G (ASC	CE 7-2	22)		
				RO	OF	WA	ALL											RO	OF	WA	
′ult PH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)	BUILDI		0.6h (FT)	0.2h (FT)	a (FT)	h (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)
		<10	+16.0 -143.3	+16.0 -224.9	+16.0 -224.9	+97.9 -97.9	+97.9 -179.6									<10	+38.0 -149.0	+93.5 -196.6	+93.5 -196.6	+93.5 -101.5	+93.5 -125.2
		20	+16.0 -135.3	+16.0 -213.7	+16.0 -213.7	+97.9 -97.9	+97.9 -179.6									20	+35.7 -139.2	+89.3 -184.0	+89.3 -184.0	+89.3 -97.3	+89.3 -116.8
80	140	50	+16.0 -124.6	+16.0 -198.8	+16.0 -198.8	+90.2 -92.8	+90.2 -158.9	BAGHOU BUILDIN		34'-3"	11'-5"	10'-5"	57'-0"	180	140	50	+32.5 -126.2	+83.8 -167.2	+83.8 -167.2	+83.8 -91.7	+83.8 -105.7
		100+	+16.0 -116.6	+16.0 -187.5	+16.0 -187.5	+84.3 -88.9	+84.3 -143.3									100+	+30.1 -116.4	+79.5 -154.6	+79.5 -154.6	+79.5 -87.5	+79.5 -97.2
CW	/IND F	PRES	SURE	S (AS	CE 7-	22)				N	OMIN	AL C8	&C WI	ND PI	RESS	URES	(ASC	E 7-2	2)		
				RO	OF	WA	ALL											RO	OF	WA	
′ult PH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)	BUILDI		0.6h (FT)	0.2h (FT)	a (FT)	h (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)
		<10	+10.0 -86.0	+10.0 -134.9	+10.0 -134.9	+58.8 -58.8	+58.8 -107.7									<10	+22.8 -89.4	+56.1 -118.0	+56.1 -118.0	+56.1 -60.9	+56.1 -75.1
		20	+10.0 -81.2	+10.0 -128.2	+10.0 -128.2	+58.8 -58.8	+58.8 -107.7	BAGHOL	SE							20	+21.4 -83.5	+53.6 -110.4	+53.6 -110.4	+53.6 -58.4	+53.6 -70.1
80	140	50	+10.0 -74.8	+10.0 -119.3	+10.0 -119.3	+54.1 -55.7	+54.1 -95.3	BUILDI		34'-3"	11'-5"	10'-5"	57'-0"	180	140	50	+19.5 -75.7	+50.3 -100.3	+50.3 -100.3	+50.3 -55.0	+50.3 -63.4
		100+	+10.0 -70.0	+10.0 -112.5	+10.0 -112.5	+50.6 -53.3	+50.6 -86.0									100+	+18.1 -69.8	+47.7 -92.8	+47.7 -92.8	+47.7 -52.5	+47.7 -58.3

ULTIMATE C&C WIND PRESSURES (ASCE 7-22)

							RO	WALL		
0.2h (FT)	a (FT)	h (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)
					<10	+32.5 -127.3	+32.5 -168.0	+32.5 -228.9	+79.9 -86.7	+79.9 -107.0
					20	+30.5 -118.9	+30.5 -157.2	+30.5 -207.3	+76.3 -83.1	+76.3 -99.8
5'-5"	3'-0"	27'-0"	180	140	50	+27.8 -107.8	+27.8 -142.9	+27.8 -178.8	+71.6 -78.3	+71.6 -90.3
					100+	+25.7 -99.4	+25.7 -132.1	+25.7 -157.2	+68.0 -74.7	+68.0 -83.1

NOMINAL C&C WIND PRESSURES (ASCE 7-22)

							RO	OF	WA	ALL .
0.2h (FT)	a (FT)	h (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)
					<10	+19.5 -76.4	+19.5 -100.8	+19.5 -137.4	+48.0 -52.0	+48.0 -64.2
					20	+18.3 -71.4	+18.3 -94.3	+18.3 -124.4	+45.8 -49.9	+45.8 -59.9
5'-5"	3'-0"	27'-0"	180	140	50	+16.7 -64.7	+16.7 -58.7	+16.7 -107.3	+42.9 -47.0	+42.9 -54.2
					100+	+15.4 -59.7	+15.4 -79.3	+15.4 -94.3	+40.8 -44.8	+40.8 -49.9



C&C WIND PRESSURE PLAN NOTES:

PRESSURES SHOWN AS NOMINAL COMPONENTS AND CLADDING PRESSURES HAVE BEEN CONVERTED FROM ULTIMATE PRESSURES USING A 0.6 MULTIPLIER FACTOR. NO FURTHER REDUCTION IS ALLOWED.

A - INDICATES TRIBUTARY AREA IN S.F. a - INDICATES END ZONE WIDTH IN FT.

h - MEAN ROOF HEIGHT IN FT.

Vult - INDICATES ULTIMATE DESIGN WIND SPEED IN MPH Vasd - INDICATES NOMINAL DESIGN WIND SPEED IN MPH

GROSS PRESSURES ARE FOR JOISTS, WINDOWS, DOORS, VENEER, LIGHT GAGE METAL FRAMING, 2. METAL DECK ATTACHMENTS, ROOFING, ROOFING ACCESSORIES AND OTHER BUILDING COMPONENTS AND CLADDING.

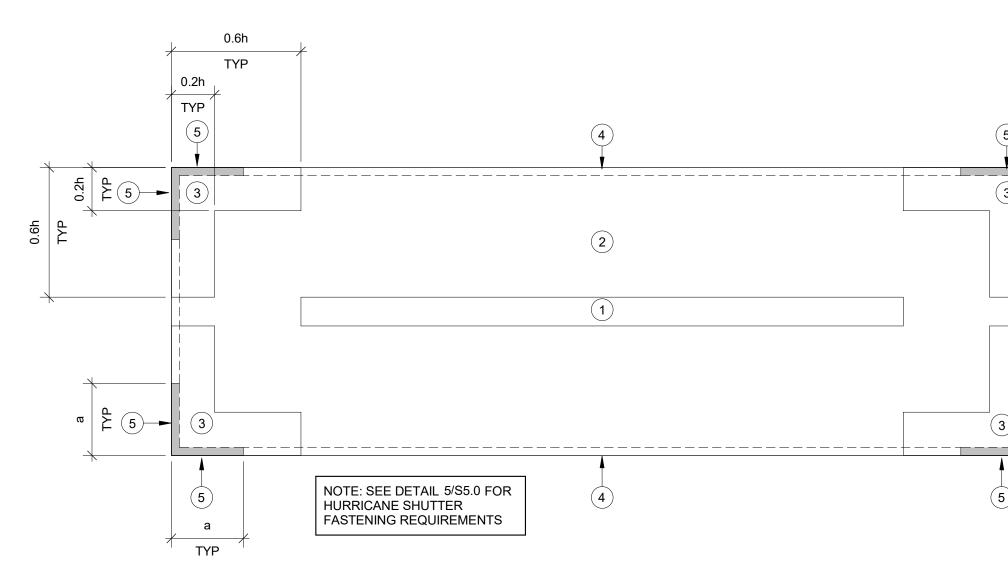
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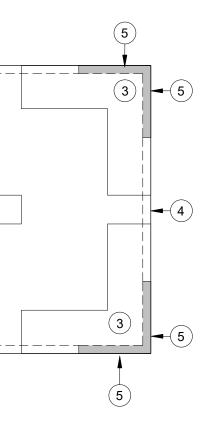
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- GROSS PRESSURES SHALL BE LINEARLY INTERPOLATED FOR (A) NOT SHOWN IN TABLE. 3.
- POSITIVE PRESSURES INDICATE PRESSURES ACTING TOWARD A PROJECTED SURFACE. NEGATIVE 4. PRESSURES INDICATE PRESSURES ACTING AWAY FROM A PROJECTED SURFACE.
- ROOF AND ZONES (1) THRU (3)5.
- WALL ZONES 4 AND 56.
- NET DESIGN ROOF PRESSURES SHALL BE CALCULATED USING THE SELFWEIGHT (DEAD LOAD) OF THE MATERIALS. HOWEVER, THE MAXIMUM REDUCTION OF WIND UPLIFT PRESSURES SHALL BE LIMITED 7. TO THE SELF WEIGHT OF THE ROOF SYSTEM PLUS 5 PSF FOR SUPERIMPOSED DEAD LOADS.
- INTERNAL PRESSURE COEFFICIENT FOR ENCLOSED BUILDING EQUALS +0.18 AND -0.18. INTERNAL 8. PRESSURE COEFFICIENT FOR OPEN STRUCTURE EQUALS +/- 0.00. INTERNAL PRESSURE COEFFICIENT FOR PARTIALLY ENCLOSED STRUCTURE EQUALS +/- 0.55.
- ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR A NOMINAL LATERAL PRESSURE OF ±155.5 PSF 9. (ULTIMATE) AND A SIMULTANEOUS NOMINAL UPLIFT PRESSURE OF ±122.8 PSF (ULTIMATE) (ROOF TOP EQUIPMENT PER FBC SECTION 1620.6 WITH Qh = 81.8 PSF)

10. AT ALCOVES AND CANOPIES, THE TOTAL UPLIFT PRESSURE ON THE ALCOVE SOFFIT OR CANOPY SHALL EQUAL THE WALL PRESSURE IN THAT AREA.



2 SCALEHOUSE BUILDINGS C&C DIAGRAM 1/4" = 1'-0"



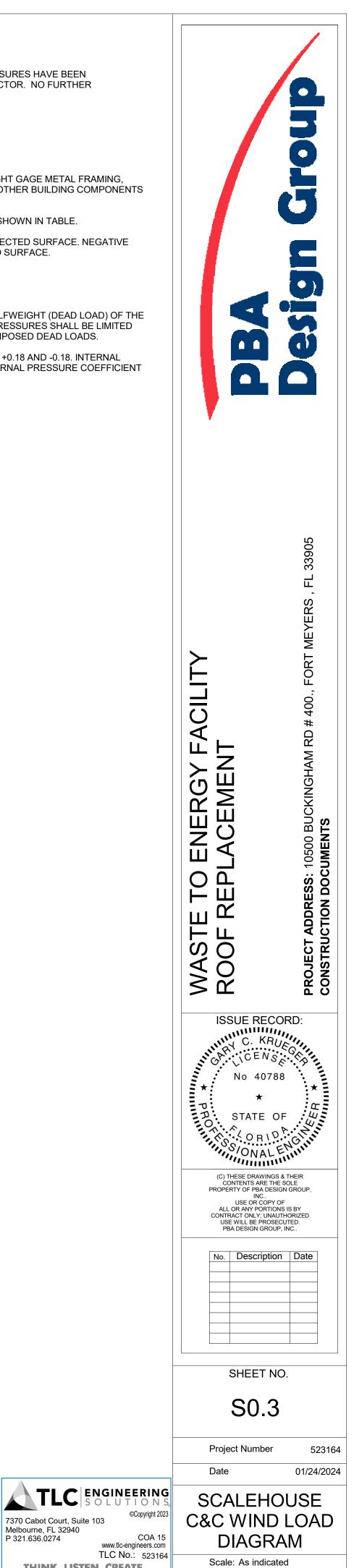
l	JLTIM	IATE (C&C V	VIND	PRES	SURE	ES (AS	SCE 7-	-22)	
							RO	OF	WA	ALL .
BUILDING	a (FT)	h (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)
					<10	+28.8 -112.8	+28.8 -148.8	+28.8 -202.8	+70.6 -76.6	+70.6 -94.6
SCALEHOUSE					20	+27.0 -105.4	+27.0 -139.3	+27.0 -183.7	+67.4 -73.4	+67.4 -88.2
BUILDINGS	3'-0"	9'-0"	180	140	50	+24.6 -95.5	+24.6 -126.6	+24.6 -158.4 +22.8	+63.2 -69.2	+63.2 -79.8
					100+	+22.8 -88.1	+22.8 -117.0	-139.2	+60.1 -66.0	+60.1 -73.4
	NOMI	NAL C	C&C V	VIND I	PRES	SURE	S (AS	CE 7-	22)	
							RO	OF	WA	ALL .
BUILDING	a (FT)	h (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)
					<10	+17.3 -67.7	+17.3 -89.3	+17.3 -121.7	+42.4 -46.0	+42.4 -56.7
SCALEHOUSE					20	+16.2 -63.2	+16.2 -83.6	+16.2 -110.2	+40.5 -44.1	+40.5 -52.9
BUILDINGS	3'-0"	9'-0"	180	140	50	+14.8 -57.3	+14.8 -76.0	+14.8 -95.0	+37.9 -41.5	+37.9 -47.9
					100+	+13.7 -52.9	+13.7 -56.9	+13.7 -56.9	+36.0 -39.6	+36.0 -44.1

C&C WIND PRESSURE PLAN NOTES:

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A - INDICATES TRIBUTARY AREA IN S.F. a - INDICATES END ZONE WIDTH IN FT. h - MEAN ROOF HEIGHT IN FT. Vult - INDICATES ULTIMATE DESIGN WIND SPEED IN MPH Vasd - INDICATES NOMINAL DESIGN WIND SPEED IN MPH

- 2. GROSS PRESSURES ARE FOR JOISTS, WINDOWS, DOORS, VENEER, LIGHT GAGE METAL FRAMING, METAL DECK ATTACHMENTS, ROOFING, ROOFING ACCESSORIES AND OTHER BUILDING COMPONENTS AND CLADDING.
- 3. GROSS PRESSURES SHALL BE LINEARLY INTERPOLATED FOR (A) NOT SHOWN IN TABLE.
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- 5. ROOF AND ZONES 1 THRU 3
- WALL ZONES 4 AND 5 6.
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- INTERNAL PRESSURE COEFFICIENT FOR ENCLOSED BUILDING EQUALS +0.18 AND -0.18. INTERNAL 8. PRESSURE COEFFICIENT FOR OPEN STRUCTURE EQUALS +/- 0.00. INTERNAL PRESSURE COEFFICIENT FOR PARTIALLY ENCLOSED STRUCTURE EQUALS +/- 0.55.



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THINK. LISTEN. CREATE.

